AMENDMENTS TO THE CLAIMS

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application:

Listing of Claims:

(Currently amended) A MHC Class I-restricted epitope peptide derived from survivin, comprising an the epitope peptide of selected from SEQ ID NO: 1, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 14, wherein the epitope peptide is capable of eliciting INF-γ producing cells in a PBL population of a patient having cancer disease wherein survivin is expressed.

Claims 2-11. (Cancelled)

- (Withdrawn) A peptide according to claim 1 comprising at the most 20 amino acid residues.
- (Withdrawn) A peptide according to claim 12 that comprises at the most 10 amino acid residues.

Claims 14-17. (Cancelled)

- 18. (Withdrawn) A peptide according to any of the preceding claims, which is phosphorylated.
- (Withdrawn) A peptide according to claim 18, which comprises Thr34 of the native survivin disclosed in US 6,45,23.
 - 20. (Cancelled)

Attorney Docket No. 60820.000004

 (Currently amended) A peptide according to elaims claim 1 that is capable of eliciting INF-γ-producing cells in a PBL population of a cancer patient at a frequency of at least

10 per 104 PBLs.

(Cancelled)

23. (Currently amended) A peptide according to claim 1 22 where the cancer disease

is selected from the group consisting of a haematopoietic malignancy including chronic

lymphatic leukemia and chronic myeloid leukemia, melanoma, breast cancer, eervix cancer,

ovary cancer, lung cancer, colon cancer, pancreas cancer and prostate cancer.

24. (Original) A peptide according to claim 1, which is capable of eliciting INF-γ -

producing cells in a PBL population of a patient having a cancer disease, said INF- γ -producing

cells having cytotoxic effect against survivin expressing cells of a cancer cell line, including a

cell line selected from the group consisting of the breast cancer cell line MCF-7 and the

melanoma cell line FM3.

25. (Original) A pharmaceutical composition comprising the peptide according to

claim 1.

(Cancelled)

(Cancelled)

28. (Currently amended) A composition according to claim 25, which is an

immunogenic composition a vaccine capable of eliciting an immune response against a cancer

disease.

Attorney Docket No. 60820.000004

29. (Withdrawn) A composition according to claim 25, further comprising an

immunogenic protein or peptide fragment selected from a protein or peptide fragment not

belonging to or derived from the survivin protein family.

30. (Withdrawn) A composition according to claim 29, where the protein or peptide

fragment not belonging to or derived from the survivin protein family is a protein, or peptide

fragment hereof, involved in regulation of cell apoptosis.

31. (Withdrawn) A composition according to claim 29 where the immunogenic

protein or peptide fragment selected from a protein or peptide fragment hereof not belonging to

or derived from the survivin protein family is Bcl-2 or a peptide fragment hereof.

(Cancelled)

33. (Original) A composition according to claim 28 where the vaccine is capable of

eliciting an immune response against a cancer disease where survivin is expressed.

34. (Currently amended) A composition according to claim 33 where the cancer

disease is selected from the group consisting of a haematopoietic malignancy including chronic

lymphatic leukemia and chronic myeloid leukemia, melanoma, breast cancer, eervix cancer,

ovary cancer, lung cancer, colon cancer, pancreas cancer and prostate cancer.

35. (Original) A composition according to claim 33 or 34 where the vaccine elicits

the production in the vaccinated subject of effector T-cells having a cytotoxic effect against the

cancer cells.

Attorney Docket No. 60820.000004

36. (Previously presented) A composition for ex vivo or in situ detection of the presence in a cancer patient of survivin reactive T-cells among PBLs or in tumor tissue, the composition comprising a peptide according to claim 1.

(Cancelled)

(Previously presented) A complex of a peptide according to claim 1 and a Class I
HLA molecule or a fragment of such molecule.

39. (Original) A complex according to claim 38 which is monomeric.

40. (Original) A complex according to claim 38 which is multimeric.

41. (Withdrawn) A method of detecting in a cancer patient the presence of survivin reactive T-cells, the method comprising contacting a tumour tissue or a blood sample with a complex according to claim 38 and detecting binding of the complex to the tissue or the blood cells.

42. (Withdrawn) A molecule that is capable of binding specifically to a peptide according to claims 1.

43. (Withdrawn) A molecule according to claim 36 which is an antibody or a fragment hereof.

44. (Withdrawn) A molecule that is capable of blocking the binding of a molecule according to claim 42 or 43.

45. (Withdrawn) A method of treating a cancer disease, the method comprising administering to a patient suffering from the disease an effective amount of the composition according to claim 25, a molecule according to claim 42 or a molecule according to claim 44.

Attorney Docket No. 60820.000004

 (Withdrawn) A method according to claim 45 wherein the disease to be treated is a cancer disease where survivin is expressed.

- 47. (Withdrawn) A method according to claim 46 wherein the cancer disease is selected from the group consisting of a haematopoietic malignancy including chronic lymphatic leukemia and chronic myeloid leukemia, melanoma, breast cancer, cervix cancer, ovary cancer, lung cancer, colon cancer, pancreas cancer and prostate cancer.
- 48. (Withdrawn) A method according to claim 45, which is combined with a further treatment.
- (Withdrawn) A method according to claim 48 wherein the further treatment is radiotherapy or chemotherapy.
- (Currently amended) The peptide composition of claim 28 17, wherein the immunogenic composition is a vaccine said peptide is SEQ ID NO:36.